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Standard Practice for Verification and Use of Control Charts in Spectrochemical Analysis¹

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1. Scope

- 1.1 This practice covers procedures for determining if a spectrochemical analysis is under statistical control.
- 1.2 Criteria are presented for determining when corrective action is required.
- 1.3 Control will be effected by using verifiers to test instrument response. It is recommended, although not required, that this be accompanied by the plotting of control charts.
- 1.4 The preparation of control charts is described.
- 1.5 *Limitations*—The procedures ~~which that~~ are described do not apply to analyses ~~which requires~~ that require a calibration each time a set of analyses is run. Reference is made specifically to optical emission spectroscopy, but the practice has a more general application.
- 1.6 This practice does not apply to validation procedures that monitor the correctness of calibration.

2. Referenced Documents

- 2.1 *ASTM Standards:*

¹ This practice is under the jurisdiction of ASTM Committee E-1 E01 on Analytical Chemistry for Metals, Ores, and Related Materials and is the direct responsibility of Subcommittee E01.22 on Statistics and Quality Control.

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